


AMENDMENTS TO THE CLAIMS:

This listing of the pending claims will replace all prior versions and listings of claims in this application:

Not Entered 
1. (Currently Amended) In a method for conducting a chemical reaction in the presence of a catalyst, the improvement comprising:

providing said catalyst on a support of electrically conductive carbonaceous material that is electrically conductive, wherein said support is selected from the group consisting of conductive graphite, carbon nanotubes, activated carbon granules, and carbonaceous adsorbents; and

supplying an electric current to said catalyst ~~on said support such that said electric current resistively heats said catalyst, thereby increasing a temperature of said catalyst with respect to said support~~ support such that said support passes said electric current to said catalyst, wherein said electric current resistively heats said catalyst, thereby disproportionately increasing a temperature of said catalyst with respect to said support.

2. (Canceled).

3. (Previously Presented) The method of claim 1 wherein said support is doped with a metal oxide.

4. (Previously Presented) The method of claim 3 wherein said support is carbon fiber.

5. (Previously Presented) The method of claim 1 wherein said catalyst is selected from the group consisting of Pt, Pd, Ru, Ni, In, P, TiO₂, V₂O₅, MoO₂, WO₃, ZnO, SnO₂, CuO, Cu₂O, FeO, Fe₂O₃, and mixtures thereof.

6. (Previously Presented) The method of claim 5 wherein said catalyst is present in admixture with a carrier.